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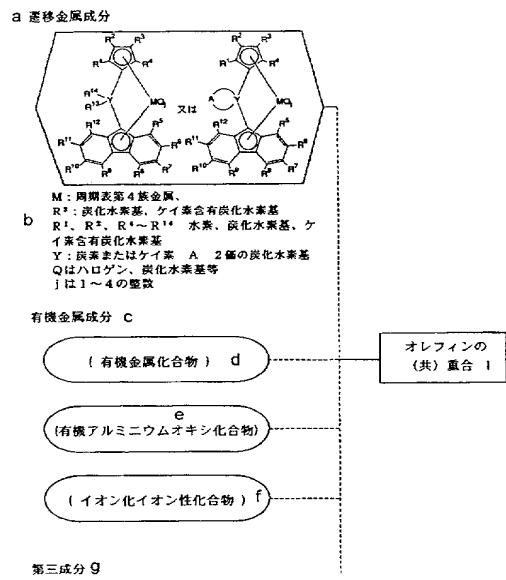
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(54) Title: METALLOCENE COMPOUND, PROCESS FOR PRODUCING METALLOCENE COMPOUND, OLEFIN POLYMERIZATION CATALYST, PROCESS FOR PRODUCING POLYOLEFIN, AND POLYOLEFIN

(54) 発明の名称: メタロセン化合物、メタロセン化合物の製造方法、オレフィン重合触媒、ポリオレフィンの製造方法およびポリオレフィン



(57) Abstract: A metallocene compound and an olefin polymerization catalyst containing the compound which are intended to provide a catalyst showing high catalytic activity in producing an isotactic polymer. The metallocene compound has a substituted cyclopentadienyl group and a (substituted) fluorenyl group which have been crosslinked with a hydrocarbon group, etc. The process for producing a metallocene compound is intended to selectively produce a specific metallocene compound while avoiding the generation of an isomer by synthesizing an intermediate by a specific method. The process for producing a polyolefin is intended to produce a polyolefin excellent in impact resistance, transparency, etc., and comprises polymerizing a C₃₋₈ α -olefin alone or with other α -olefin in the presence of the olefin polymerization catalyst containing a metallocene compound.

a...TRANSITION METAL INGREDIENT
b...M: METAL IN GROUP 4 OF PERIODIC TABLE
R¹: HYDROCARBON GROUP OR SILICOHYDROCARBON GROUP
R¹, R², AND R³ TO R¹⁴: HYDROGEN, HYDROCARBON GROUP, OR SILICOHYDROCARBON GROUP
Y: CARBON OR SILICON
A: DIVALENT HYDROCARBON GROUP
Q: HALOGENO, HYDROCARBON GROUP, ETC.
J: INTEGER OF 1 TO 4
c...ORGANOMETALLIC INGREDIENT
d... (ORGANOMETALLIC COMPOUND)
e... (ORGANOALUMINUMOXY COMPOUND)

f... (IONIZING IONIC COMPOUND)
g... THIRD INGREDIENT
h... SUPPORT
i... (CO) POLYMERIZATION OF OLEFIN

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